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ACCESSION NUMBER:

1999:576899 CAPLUS

DOCUMENT NUMBER:

131:185368

ENTRY DATE:

Entered STN: 14 Sep 1999

TITLE:

Method for separating and purifying adipic acid which

is prepared by the oxidation of cyclohexane Costantini, Michel; Fache, Eric; LeConte, Philippe

INVENTOR(S):

Rhodia Fiber and Resin Intermediates, Fr.

PATENT ASSIGNEE(S):

PCT Int. Appl., 20 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

INT. PATENT CLASSIF.:

MAIN:

C07C051-44

SECONDARY:

C07C051-487; C07C051-43; C07C051-42; C07C055-14;

C07C051-31

CLASSIFICATION:

35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 23, 48

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO.                      | KIND                 | DATE                         | APPLICATION NO.                          | DATE                              |
|---------------------------------|----------------------|------------------------------|------------------------------------------|-----------------------------------|
| WO 9944980                      |                      |                              | WO 1999-FR420                            | 19990224                          |
| W: BR, BY, CA<br>RW: AT, BE, CH | , CN, CZ<br>, CY, DE | , ID, JP, KF<br>, DK, ES, FI | R, PL, RO, RU, SG,<br>I, FR, GB, GR, IE, | SK, UA, US, VN<br>IT, LU, MC, NL. |

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     US 6787669
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PRIORITY APPLN. INFO.:
                                            FR 1998-2928
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 WO 9944980
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                        C07C051-487; C07C051-43; C07C051-42; C07C055-14;
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|    |            | NCL  | 562/543.000                                            |
|    |            | ECLA | C07C051/42+55/14; C07C051/43+55/14; C07C051/44+55/14;  |
|    |            |      | C07C051/487+55/14                                      |

#### ABSTRACT:

The treatment of reaction mixts. derived from an oxidation reaction of cyclohexane into adipic acid is described along with a method for the separation of the different constituents of the mixts. and the purification of the adipic acid by extractive and distillative means.

SUPPL. TERM: adipic acid manuf purifn; distn adipic acid purifn; extn

adipic acid purifn; cyclohexane oxidn adipic acid manuf

purifn

INDEX TERM: Carboxylic acids, uses

ROLE: NUU (Other use, unclassified); USES (Uses)

(esters, extraction solvents; method for separating and

purifying

adipic acid which is prepared by the oxidation of cyclohexane)

INDEX TERM: Alicyclic compounds

Aromatic hydrocarbons, uses

Hydrocarbons, uses

ROLE: NUU (Other use, unclassified); USES (Uses)

(extraction solvents; method for separating and purifying

adipic

acid which is prepared by the oxidation of cyclohexane)

INDEX TERM: Crystallization

Distillation Extraction Hydrogenation

Recrystallization (in a method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) INDEX TERM: Oxidation (liquid-phase; in a method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) INDEX TERM: Hydroperoxides ROLE: RCT (Reactant); RACT (Reactant or reagent) (method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane using) INDEX TERM: Electrodialysis (separating and purifying adipic acid via) INDEX TERM: Purification (separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) INDEX TERM: 108-93-0P, Cyclohexanol, preparation 108-94-1P, Cyclohexanone, preparation ROLE: BYP (Byproduct); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) 7439-88-5, Iridium, uses INDEX TERM: 7439-89-6, Iron, uses 7439-96-5 , Manganese, uses 7440-02-0, Nickel, uses 7440-04-2, Osmium, uses 7440-05-3, Palladium, uses 7440-06-4, Platinum, uses 7440-16-6, Rhodium, uses 7440-18-8, Ruthenium, uses 7440-47-3, Chrome, uses 7440-48-4, 7440-50-8, Copper, uses Cobalt, uses 7440-58-6, Hafnium, 7440-62-2, Vanadium, uses uses 7440-67-7, Zirconium, uses ROLE: CAT (Catalyst use); USES (Uses) (method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) INDEX TERM: 124-04-9P, Hexanedioic acid, preparation ROLE: IMF (Industrial manufacture); PUR (Purification or recovery); PREP (Preparation) (method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) INDEX TERM: 110-82-7, Cyclohexane, reactions 7697-37-2, Nitric acid, reactions 10028-15-6, Ozone, reactions ROLE: RCT (Reactant); RACT (Reactant or reagent) (method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) INDEX TERM: 64-19-7, Acetic acid, uses 7732-18-5, Water, uses ROLE: NUU (Other use, unclassified); USES (Uses) (solvent; method for separating and purifying adipic acid which is prepared by the oxidation of cyclohexane) REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. REFERENCE(S): (1) BASF AG; FR 2353513 A 1977 CAPLUS (2) BASF AG; FR 2390415 A 1978 CAPLUS (3) Bayer AG; DE 4428977 A 1996 CAPLUS (4) Constantini, M; WO 9603365 A 1996 CAPLUS (5) Dougherty, E; US 3933930 A 1976 CAPLUS (6) Horbez, D; WO 9736673 A 1997 CAPLUS

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☐ 1. Document ID: US 6787669 B1

L8: Entry 1 of 1

File: USPT

Sep 7, 2004

US-PAT-NO: <u>6787669</u>

DOCUMENT-IDENTIFIER: US 6787669 B1

TITLE: Method for separating and purifying adipic acid

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Costantini; Michel

Lyons

FR

Fache; Eric

Caluire et Cutre

FR

Leconte; Philippe

Meyzieu

FR

ASSIGNEE-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY TYPE CODE

Rhodia Fiber & Resin

Courbevoie

Cedex

FR 03

APPL-NO: 09/623414 [PALM]
DATE FILED: November 8, 2000

PARENT-CASE:

Intermediates

This application was filed as a 371 application based on application PCT/FR99/00420 filed Feb. 24, 1999 which claims priority to application FR98/02928 filed Mar. 5, 1998.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY

APPL-NO

APPL-DATE

FR

98 02928

March 5, 1998

PCT-DATA:

APPL-NO

DATE-FILED

PUB-NO

PUB-DATE

371-DATE

PCT/FR99/00420

February 24, 1999

WO99/44980

Sep 10, 1999

INT-CL-ISSUED: [07] C07C 51/31

INT-CL-CURRENT:

TYPE IPC

DATE

CIPS <u>C07</u> <u>C</u> <u>51/43</u> 20060101 CIPS <u>C07</u> <u>C</u> <u>51/44</u> 20060101 CIPS <u>C07</u> <u>C</u> <u>51/487</u> 20060101 CIPS <u>C07</u> <u>C</u> <u>51/42</u> 20060101

US-CL-ISSUED: 562/543 US-CL-CURRENT: <u>562/543</u>

FIELD-OF-CLASSIFICATION-SEARCH: 562/543

See application file for complete search history.

PRIOR-ART-DISCLOSED:

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| PAT-NO         | ISSUE-DATE   | PATENTEE-NAME    | US-CL |
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| FOREIGN-PAT-NO | PUBN-DATE     | COUNTRY CLASS |
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| 44 28 977      | February 1994 | DE            |
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| 2 092 524      | January 1972  | FR            |
| 2 353 513      | December 1977 | FR            |
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| 96 03365       | February 1996 | WO            |
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Derwent abstract (Acc No 1973-31683U) of JP 73016902 (1973). Adipic acid purification—by contact with ozone containing gas and crystallization.\* Derwent abstract (Acc. No. 1980-24322C) of JP 55024153 (1980). Recovery of high purity adipic acid.\*

Derwent abstract (Acc No 1977-86545Y) of BE 855237A (1977). Purification of adipic acid.\*

Derwent abstract (Acc No 1971-07345S) of JP 71002802B (1971). Adipic acid purification.

ART-UNIT: 1651

PRIMARY-EXAMINER: Gitomer; Ralph

ATTY-AGENT-FIRM: Burns, Doane, Swecker & Mathis, L.L.P.

## ABSTRACT:

The present invention relates to the treatment of the reaction mixtures resulting from an oxidation reaction of cyclohexane to adipic acid and more particlarly to the separation of the various constituents of the said mixtures and to the purification of the adipic acid.

22 Claims, 0 Drawing figures

| Full  | Title Citation Front Review | Classification Date | Reference | equences   Altacia | nems Claims | KWIC Draw, De |
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